

Abstract

Bacterial composition, process and facility for the pre-treatment of effluent rich in organic fats

5

A bacterial composition, a process and a facility for the pre-treatment of effluent rich in organic fats of animal or vegetable origin. The bacterial composition principally is the bacterial strain *Klebsiella oxytoca*. The process consists of supplying a homogenisation and/or processing vessel (1) with effluent to be pre-treated, as it is produced, activating a recirculation circuit (2) between the vessel and a biological reactor (3) to obtain a fat dilution rate situated between 0.400 h⁻¹ and 1.500 h⁻¹ for an initial fat concentration of 1 g/l, degrading the fats in the biological reactor (3) using the bacterial composition and discharging the pre-treated effluent to a final treatment unit such as a purification plant.

10